



Dosing Meter OKTronic

Measurement and dosing in top quality



- Oval wheel meter for precise metering
- Dosing controller DC 155 for comfortable handling
- Electro-pneumatic two-step valve shutoff
- Metering of highest viscosities (max. 100000mPas)
- Metering of non-conductive liquids
- No inlet or outlet section necessary
- Menu driven software configuration

D-EN-OKT-20200128



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Characteristics

The electro-pneumatic dosing meter Oktronic combines the precise metering of approved oval wheel meter, the intelligent electronic and modern valve technology to a robust and universal applicable metering unit.

Ergonomics

With a comfortable keyboard, with large keys (22 x 22 mm), a clearly arranged display and the flexible functionality it is easy to realize simple as well as complex batch applications directly in hazardous area, without huge wiring expense to a e.g. panel room in safe area.

Simple remote control

It is possible to realize a remote control for the basic functions "START", "STOP", "RESET", „

Process monitoring

The DC155 has a comfortable malfunction and disturbance monitoring system to monitor the sensor wiring and the flow.

To avoid wrong warnings, it is possible to turn off the monitoring for a programmable delay time at the start up phase. This is also possible for over or under-run of limit values.

Analog output

The analog output of the DC155 has a 14 bit resolution and it can drive an impedance up to 600 W, respectively 1000 W , using the separate analog output supply option.

MODBUS interface

All process variables can be transferred to a higher-level control system via an optional Modbus interface. The control system can also use control commands to intervene in the dosing process via this interface.

Application

Dosing counters of this type are used for automatic filling and dosing of chemical liquids such as Solvents, resins, paints / varnishes, bases, organic / inorganic acids, alcohols and mineral oils such as Heating oil / diesel / lubricating oil.



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Technical data		
General data	Mounting	Possible in hazardous area
	Ex-protection	Eex ib IIC T6; 2 II C
	EC-type approval	PTB 98 ATEX 2017
	Ambient temperature	-10°C ... +45°C at T6 -10°C ... +65°C at T4
Housing	Safety class	IP65
Electrical specifications	Power supply	Class intrinsically safe Eex ib IIC
	Power consumption	15V and min. 20 mA = 300 mW (without analog output)
Options		
Outputs	Digital output	3 intrinsically safe galvanically isolated digital outputs voltage drop at controlled state 2,5 V
	Analog output	4-20 mA, minimum 600 Ω, accuracy <0,2 % TK < 0,01 %/K
Power supply	Minimal configuration DC155.x.0.0x0.0x	MUS with U = 15 V, I = 20 mA, load = 750 Ω
	Additional analogous output	U = 15 V, current consumption see above + 20 mA Or with separate MUS : DC155.x.x.x.x.x.1
	Additional TTY-interface	U = 15 V, current consumption see above + 20 mA
	Additional 2. input acc. NAMUR	U 0 15 V, current consumption see above + 6 mA
Print	TTY-interface	Protocol printout (optional to be calibrated) Remote control via ESC-sequence

Material (others on request)		
/G2	Housing: cast steel, oval wheels: cast iron, inner parts of ball valve: stainless steel 1.4301	
/F5	Housing: CrNiMo, oval wheels: CrNiMo, inner parts of ball valve: stainless steel 1.4401	
/F528	like "F5", every oval wheel meter with encapsulated magnetic coupling and acid-resistant bearing	

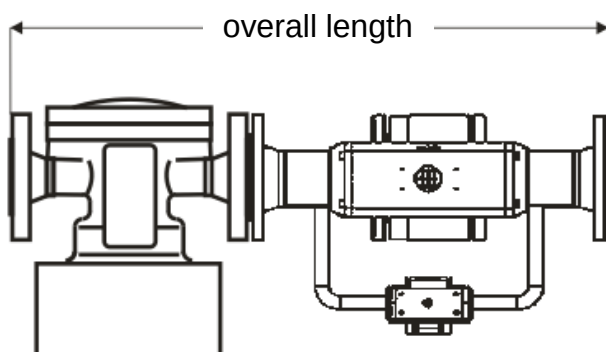
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Dimensions

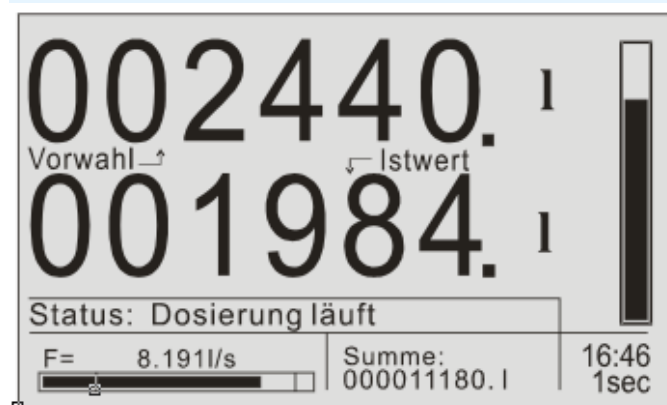


Oval wheel meter	Ball valve combination	length (in mm)
OI 5	DN 25 – DN 10	620
OI 10	DN 25 – DN 10	620
OI 50	DN 50 – DN 10	745
OI 100	DN 50 – DN 10	815
OI 200	DN 80 – DN 20	1184
OI 400	DN 100 – DN 20	1319
OI 400	DN 100 – DN 25	1319
OaP 600	DN 100 – DN 25	1419
Data for flanges acc. To ANSI upon request		

Measuring range

OI	Liquid flow (in l/min)	
	min	max
OI 5	5	50
OI 10	10	100
OI 50	30	300
OI 100	66	660
OI 200	70	700
OI 400	120	1200
OaP 600	300	3000
Ranges for viscosities from 0,3 to 150 mPa		

Display



Language selectable